

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-305769

(43)Date of publication of application : 22.11.1996

(51)Int.Cl.

G06F 19/00
G06F 17/60

(21)Application number : 07-108695

(71)Applicant : YUYAMA SEISAKUSHO:KK

(22)Date of filing : 02.05.1995

(72)Inventor : YUYAMA SHOJI

NOSE HIROSHI

HAMADA HIROYASU

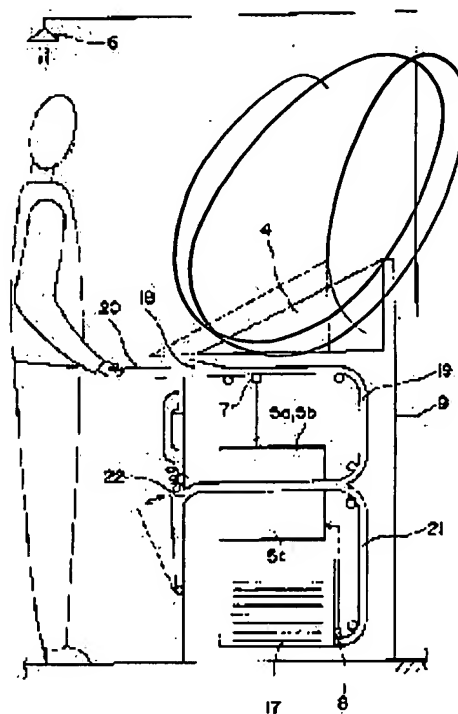
(54) PRESCRIPTION RECEIVING SYSTEM

(57)Abstract:

PURPOSE: To shorten the time to be required for the reception of medicines by transmitting information described in a prescription to a pharmacy previously selected by a person who has made reservation for it.

CONSTITUTION: A reader 5a, a facsimile (FAX) equipment 5b and a copying device 5c are arranged on the center of the inside of a device body 9 and plural sheets of information presenting paper 17 are laminated under the devices 5a to 5c. Prescription information described in a prescription 20 inserted from a prescription inserting port 18 formed on the upper part of the front face of the body 9 and supplied through a 1st carrier 19 is read out. A required pharmacy is selected by a pharmacy selecting means on pharmacy

information stored in a storage means. The FAX equipment 5b transmits the read information to the selected pharmacy as FAX information. The copying device 5c prints out pharmacy information on the surface of information presentation paper 17. The prescription 20 and the paper 17 are discharged from a receiving port 22 formed under the inserting port 18.



LEGAL STATUS

[Date of request for examination] 28.07.2000

[Date of sending the examiner's decision of rejection] 26.11.2002

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection] 2002-024947

[Date of requesting appeal against examiner's decision of rejection] 26.12.2002

[Date of extinction of right]

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the prescription reception system which can receive preparation in a desired dispensing pharmacy, after receiving a prescription in a hospital etc.

[0002]

[Description of the Prior Art] Conventionally, in a hospital, a prescription is published based on the information by which the computer input was carried out based on a medical practitioner's clinical recording and this clinical recording, and it prepares a medicine in a chemist's shop according to this prescription. And a patient can receive the prepared drugs now in exchange for the exchange ticket passed after the medical examination. However, long duration is taken for a patient to receive drugs from the reasons of the lack of the number of pharmacists to the number of patients etc. For this reason, recently, the system (nonparliamentary formula) which I have prepared in the dispensing pharmacy which the patient specified also as the request of a separation of medical practice and drug dispensing conjointly is performed increasingly. A patient transmits a prescription to the dispensing pharmacy specified from the hospital side by facsimile, and this system exchanges an exchange ticket and drugs in that dispensing pharmacy.

[0003]

[Problem(s) to be Solved by the Invention] However, the still following problems are not solvable by said system, either. That is, for the reasons of run out, a regular holiday day, etc., even if he goes out to a chemist's shop with much trouble, desired drugs may be unreceivable. For this reason, the situation troublesome for a patient occurs -- there is the need of contacting by phone beforehand and checking. And when inside of a shop is crowded, before receiving drugs, it will take some time amount.

[0004] moreover, nonparliamentary [by which the patient itself was prepared in the hospital in said system when a dispensing pharmacy was pinpointed] -- the dispensing pharmacy which must choose from a prescription handling chemist's shop list, and is the easiest to use for a patient is where -- that decision is difficult.

[0005] Then, this invention aims at offering the prescription reception system which makes it possible to perform selection of a dispensing pharmacy, and the receipt of drugs smoothly in view of said trouble.

[0006]

[Means for Solving the Problem] It constitutes from a reading means read the prescription information indicated by the prescription in the prescription reception system in this invention in order to attain said purpose, a storage means memorize dispensing pharmacy information, a dispensing pharmacy selection means choose a dispensing pharmacy based on the dispensing pharmacy information which memorized for this storage means, and a transmitting means transmit the prescription information which read with the aforementioned reading means to the dispensing pharmacy chosen by said dispensing pharmacy selection means.

[0007] It is desirable to have the display means which carries out image display of the dispensing pharmacy information memorized for said storage means.

[0008] It is desirable that it is what said dispensing pharmacy selection means expansion,

reduces or displays [migration] the map concerned at said display means, and chooses a dispensing pharmacy based on this display including the map showing the location of the dispensing pharmacy where the dispensing pharmacy information memorized for said storage means was registered.

[0009] As for said dispensing pharmacy selection means, it is desirable that it is what displays the dispensing pharmacy name shown in the map by which image display was carried out among the registered dispensing pharmacies on said display means, and chooses a dispensing pharmacy based on this display.

[0010] It is desirable that it is what said dispensing pharmacy selection means displays the name of a place selection information concerned on said display means from the most significant, changes a display to a low-order side by choosing any one, displays a dispensing pharmacy name, and chooses a dispensing pharmacy based on this display including the name of a place selection information which the dispensing pharmacy information memorized for said storage means is hierarchized, and has a dispensing pharmacy name in the least significant.

[0011] As for said dispensing pharmacy selection means, it is desirable that it is what retrieves corresponding dispensing pharmacy information from said storage means, and is displayed on said display means by choosing either of the dispensing pharmacy names displayed on the display means.

[0012] It is desirable that it is what retrieves the dispensing pharmacy information which corresponds when said dispensing pharmacy selection means inputs the chemist's shop specific information concerned from said storage means, and is displayed on said display means including the chemist's shop specific information in which the dispensing pharmacy information memorized for said storage means can pinpoint a desired dispensing pharmacy.

[0013]

[Function] In invention of said configuration, the prescription information indicated by the prescription is read by the reading means. Moreover, based on the dispensing pharmacy information memorized by the storage means, a desired dispensing pharmacy is chosen by the dispensing pharmacy selection means. And the prescription information read by the reading means is transmitted to the dispensing pharmacy chosen by the transmitting means with the dispensing pharmacy selection means.

[0014] In invention of a configuration of having had said display means, dispensing pharmacy information can be displayed on a display means.

[0015] At this time, the map of a request for a display means can be displayed on said display means by actuation of a subscriber by invention of a configuration of having enabled it for it to have expansion and been reducible or to migration display a map.

[0016] And by invention which enabled it to display a dispensing pharmacy name on said display means, where the map showing the location of a desired dispensing pharmacy is displayed, the dispensing pharmacy can be chosen.

[0017] Moreover, by choosing the name of a place of a sequential request, and going by invention of a configuration of having displayed the name of a place hierarchized for said display means, an area can be narrowed down and, finally a desired dispensing pharmacy can be chosen.

[0018] Moreover, information required for a subscriber can be checked in invention which displayed the dispensing pharmacy information corresponding to the dispensing

pharmacy chosen as said display means.

[0019] In addition, in invention which chose the dispensing pharmacy by chemist's shop specific information, a dispensing pharmacy can be chosen quickly and dispensing pharmacy information can be acquired for a display means.

[0020]

[Example] Hereafter, the example of this invention is explained according to an accompanying drawing.

[0021] Drawing 1 thru/or drawing 3 show the prescription reservation reception equipment concerning this example. This prescription reservation reception equipment consists of a profile, I/O device 1, storage 2, and a control unit 3.

[0022] I/O device 1 consists of a display panel 4, reader 5a, fax machine 5b, copy equipment 5c, the subscriber detection sensor 6, an acceptance detection sensor 7, and information offer paper error detection sensor 8 grade.

[0023] As shown in drawing 1, said display panel 4 is formed in the upper part of the body 9 of equipment, is located in the perimeter of central display 4a as which actuation guidance, a map, the name of a place, etc. are displayed, and central display 4a, and consists of circumference display 4b as which actuation key 10a (the broader-based map key 27 mentioned later, the short-range map key 28, and arrow-key 29 grade correspond.) is displayed. Moreover, said display panel 4 is equipped with the touch panel 10 as shown in drawing 3. This touch panel 10 is constituted by the map and the name of a place itself which was displayed outside said actuation key 10a. And if this touch panel 10 is operated, that input signal will be inputted into a control unit 3 through interfaces 12 and 13 from the touch panel controller 11. Moreover, the control signal from a control device 3 is inputted into the display KONTOR roller 15 from the touch panel controller 11 through interfaces 12 and 13 and the video signal processing section 14, and when X and the Y driver lines 16a and 16b drive, a predetermined display is performed to said display panel 4. For example, if the predetermined location of said map is pressed with a finger, the enlarged display of the predetermined field containing a press part will be carried out to a display panel 4.

[0024] As said reader 5a, fax machine 5b, and copy equipment 5c are shown in drawing 2, it is prepared in the center of the interior of the body 9 of equipment, and the laminating of the information offer paper 17 is carried out to the lower part. Said reader 5a is inserted from the prescription acceptance opening 18 formed in the front upper part of the body 9 of equipment, and reads the information indicated by the prescription 20 supplied through the 1st conveyance way 19. Said fax machine 5b transmits the read information to the dispensing pharmacy specified as facsimile information. Said copy equipment 5c prints dispensing pharmacy information (chemist's shop guidance, the means of transportation to a chemist's shop, a tariff, an object, appearance, etc.) on the front face of the information offer paper 17 supplied through the 2nd conveyance way 21. Both said prescription 20 and said information offer paper 17 are discharged from the receipt opening 22 which said prescription acceptance opening 18 prepared caudad. In addition, the advertisement of a hospital, a chemist's shop, etc. may be printed by the rear face of said information offer paper 17.

[0025] Said subscriber detection sensor 6 is formed above the body 9 of equipment, and detects existence of the subscriber in the front section of the body 9 of equipment. However, this subscriber detection sensor 6 of your making it prepare in the front face of

the body 9 of equipment directly is natural. As said acceptance detection sensor 7 is the 1st conveyance way 19 where the prescription 20 inserted from the prescription acceptance opening 18 is conveyed, it is arranged, and it reads the existence of the prescription 20 to pass. Said information offer paper error detection sensor 8 gets the information offer paper 17 blocked, or it detects having run short.

[0026] Dispensing pharmacy information and drugs information are mainly memorized by storage 2. Said dispensing pharmacy information means information, such as a map to each dispensing pharmacy registered from the hospital which is a its present location outside the map and the name of a place which were made to hierarchize and memorize, the traffic root, traffic time amount, and a traffic tariff. Moreover, said drugs information means the information about a dispensing pharmacy and the drugs which are transmitted and received, for example, patient medication record information, allergy information, chemical run out information, etc. In addition, information, such as an operating manual and an error message, is also memorized by the store 2 as operation-error information.

[0027] A control unit 3 calls predetermined information from storage 2 based on the input signal from said I/O device 1. That is, based on the input signal from the touch panel 10 of a display panel 4, dispensing pharmacy access information, such as map information, is called through the retrieval equipment 23 for actuation. Moreover, while calling drugs information, such as patient medication record information, through the retrieval equipment 24 for issue reservation based on the prescription information read by reader 5a, an operating manual, an error message, etc. are called from operation-error information.

[0028] Said control device 3 performs reception processing, dispensing pharmacy selection processing, service processing, and communications processing as prescription reception reservation processing according to the flow chart of drawing 4 (step S1 - S4).

[0029] (Reception processing) Drawing 5 shows the flow chart of reception processing. Reception processing receives a prescription and the processing for making the preparations to which next processing is made to carry out smoothly is said.

[0030] By reception processing, it judges first whether the subscriber was detected at step S11 by whether there was any input signal from the subscriber detection sensor 6. If a subscriber is not detected, it stands by as it is and a subscriber is detected, a prescription injection display will be performed to a display panel 4 at step S12. In this prescription injection display, an alphabetic character, such as "please put in a prescription from prescription acceptance opening", a picture, a photograph, etc. are displayed on a display panel 4. Moreover, to coincidence, it points to the location of said prescription acceptance opening 18 by an arrow head etc. In this case, of course, you may make it display by arranging LED etc. in the perimeter of the prescription acceptance opening 18, and blinking these.

[0031] Next, it judges whether the prescription 20 was thrown in at step S13 by whether there was any input signal from the acceptance detection sensor 7. If a prescription 20 is not detected, it stands by as it is and a prescription 20 is detected, the information (subscriber information etc. is included outside the drugs information to prepare.) indicated by the prescription 20 in reader 5a at step S14 will be read. Here, it judges whether there is any problem in a prescription 20 at step S15. The case where medicine is already thought to be the case where a problem is in a prescription 20 with the prescription 20, the case where the prescription is forged, etc. correspond, for example,

the identification number of a prescription 20 is checked by collating with the registration number by which the computer input was carried out etc.

[0032] When a problem is in a prescription 20, while performing a reception improper display to central display 4a of a display panel 4 at step S16, after connecting with the circuit to the administration at step S17 and connecting that, prescription reception processing is ended.

[0033] When there is no problem in a prescription 20, based on the subscriber information read by said reader 5a, patient medication record information is retrieved at step S18. As patient medication record information, not only the drugs of a publication but the information already concerning a subscriber's allergic response about the drugs under recipe now, the combination information on drugs with a possibility of causing a side effect by coupling inhibition, etc. are in this prescription 20. This patient medication record information is updated by the input and the completion formula data storage (step S135 reference) mentioned later from the external terminal A whenever information, such as issue of the prescription 20 by the medical practitioner, registration of a new drug, and a new allergic response, is acquired. And the patient medication record information called at step S19 is once memorized in the memory of a control unit 3, and a processing actuation menu is expressed as step S20. In this case, as shown in drawing 17, actuation guidance is displayed on central display 4a, and the map selection key 25 for discovering a dispensing pharmacy by map selection as actuation key 10a in the predetermined location of periphery 4b and the name of a place selection key 26 for discovering by the name of a place are displayed on a display panel 4.

[0034] Display processing mentioned later is started at step S21. Display processing means the processing for performing actuation guidance for making a subscriber operate it smoothly etc. And it shifts to dispensing pharmacy selection processing by standing by until there is key selection at step S22, and judging whether the key chosen at step S23 is the map selection key 25.

[0035] Drawing 6 shows the flow chart of said display process. In a display process, a timer is started after termination of the key stroke by pressing the touch panels 10, such as actuation key 10a, with a finger at step S31. Then, if it judges whether this timer time amount exceeds the setup time (for example, 6 seconds) and has not exceeded at step S32, it shifts to the direct step S34, and if it has exceeded, after displaying an applicable actuation message at step S33, it shifts to step S34. Voice may perform that what is necessary is just a message for urging the thing and actuation which are displayed that a subscriber understands the operating procedure in this time well as an applicable actuation message displayed here on a detail etc.

[0036] At step S34, it judges whether there was any access (said key stroke) of actuation key 10a. If there is no key stroke, it will continue said steps S32 and S33, and if a key stroke occurs, after eliminating said message at step S35, it judges whether the key stroke was completed at step S36.

[0037] In addition, said key stroke is judged by whether it considers as display-processing termination at step S134 of the service processing mentioned later. That is, after this, said display processing is always continued until the prescription reservation by the subscriber is completed. Thereby, a failure can be decreased while being able to attain shortening of the prescription reservation time amount by the subscriber.

[0038] (Dispensing pharmacy selection processing - map selection) Drawing 7 and

drawing 16 show the flow chart of dispensing pharmacy selection processing. Processing for dispensing pharmacy selection processing to choose a dispensing pharmacy based on the map or the name of a place displayed on a display panel 4 is said.

[0039] Drawing 7 is a flow chart which shows dispensing pharmacy selection processing (chemist's shop selection map processing) when the map selection key 25 is chosen by said reception processing.

[0040] By chemist's shop selection map processing, the initial map of a setting is displayed on central display 4a of a display panel 4 at step S41. As an initial map of a setting, as shown in drawing 18, what is necessary is just the map of the predetermined field centering on the hospital which is its present location. In this case, as for that field, what can cover the range predicted that most subscribers use in the dispensing pharmacy registered into said initial map of a setting is desirable. Moreover, the broader-based map actuation key 27, the short-range map actuation key 28, and an arrow key 29 are expressed to circumference display 4b of a display panel 4 as said initial map of a setting as actuation key 10a.

[0041] At step S42, the 1st key elimination processing mentioned later is performed. The processing from which the 1st key elimination processing eliminates a display although the actuation became impossible among said broader-based map actuation key 27, the short-range map actuation key 28, and the arrow key 29 is said.

[0042] At step S43, the 2nd key elimination processing mentioned later is performed. The processing from which the 2nd key elimination processing eliminates either the map selection key 25 or the name of a place selection key 26 is said.

[0043] At step S44, it judges whether the name of a place selection key 26 was chosen, and modification to chemist's shop selection name of a place processing in chemist's shop selection map processing is enabled. If the name of a place selection key 26 is not operated, it judges whether there was any location specification input at step S45. The case where a key stroke is made is said so that a location specification input may perform dispensing pharmacy selection. The assignment of the area in a display which specifically carries out the following the outside at the time of carrying out touch actuation of said one of actuation key 10a corresponds. If there is no location specification input, steps S43 and S44 will be repeated, and if there is a location specification input, it will shift to step S46.

[0044] Map display processing mentioned later is started at step S46. Map display processing means the processing for expanding, reducing or moving the map displayed on central display 4a of a display panel 4.

[0045] At step S47, the display of the map selection key 25 which is an unnecessary actuation message is eliminated by performing the 1st key elimination processing according to the flow chart of drawing 8 like said step S42.

[0046] At step S48, it judges whether there are few registered dispensing pharmacies in the map displayed on the display panel 4 than the number of empty keys of circumference display 4b (the number of the parts where actuation key 10a is not displayed).

[0047] After displaying a dispensing pharmacy name at step S50, respectively as a dispensing pharmacy name is assigned to vacant circumference display 4b, respectively and it is shown in drawing 19 at step S49 when there are few registered dispensing pharmacies than the number of openings of circumference display 4b, it shifts to step

S54.

[0048] On the other hand, when there are more registered dispensing pharmacies than the number of openings of circumference display 4b, since they cannot be assigned even if all of said circumference display 4b are used for all the registration dispensing pharmacies in the map displayed now, they express the list key 30 to one of the circumference display 4b as step S51 as actuation key 10a. in this case, the number of dispensing pharmacies registered into the list key 30 into the map on display to the current display panel 4 is how many affairs -- it doubles a thing and displays. And it judges whether the list key 30 was chosen at step S52. If the list key 30 is not chosen, as it is, it shifts to step S54, and if chosen, after performing data display processing at step S53, it shifts to step S54. When data display processing chooses a name of a place list, processing of how to display the dispensing pharmacy name displayed on central display 4a of a display panel 4 is said.

[0049] At step S54, it judges whether the specific dispensing pharmacy was actually chosen. If the specific dispensing pharmacy is not chosen, said steps S43-S53 are repeated. And if a specific dispensing pharmacy is chosen, it will judge whether the map print key 34 is expressed as step S55 as actuation key 10a, and print issue of a map is performed at step S56 by the existence of an input of the print key 34.

[0050] If the print key 35 is operated, after performing print information processing at step S57, if not operated, it returns to the flow chart of drawing 4 as it is. It says choosing the dispensing pharmacy information about the access root from the hospital whose print information processing is the appearance of a store of the selected dispensing pharmacy, a means of transportation, a catalog, and a its present location etc.

[0051] Drawing 8 shows the flow chart of said 1st key elimination processing. In the 1st key elimination processing, it judges whether a display map is expandable at step S61. If expansion is possible, it will shift to the direct step S63, and if expansion is impossible, after stopping the display to circumference display 4b of a display panel 4 by step S62 by making the broader-based map actuation key 27 into an OFF state, it shifts to step S63.

[0052] At step S63, it judges whether a display map is reducible. If contraction is possible, it will shift to the direct step S67, and if contraction is impossible, after stopping the display to a display panel 4 by step S64 by making the short-range map actuation key 28 into an OFF state, it shifts to step S65.

[0053] At step S65, it judges whether a display map can move (scrolling: shift the display position on a display panel). If movable, it will shift to the direct step S67, and if migration is impossible, after stopping the display to a display panel 4 by making the arrow key 29 of the migration direction into an OFF state by step S66, it shifts to step S67.

[0054] At step S67, it judges whether there are few dispensing pharmacies in the map displayed on central display 4a of a display panel 4 than the number of empty keys of circumference display 4b (the number of the registration dispensing dispensing pharmacies in a display). If many, a current display condition will be maintained, and if few, the display to circumference display 4b of a display panel 4 will be stopped by making into an OFF state the list key 30 which shows the dispensing pharmacy sum total at step S68.

[0055] Thus, since actuation key 10a which cannot be chosen by circumference display 4b of a display panel 4 will be in an OFF state one by one according to said 1st key

elimination processing, generating of malfunction by a subscriber operating it accidentally can be prevented beforehand.

[0056] Drawing 9 shows the flow chart of the 2nd key elimination processing. By the 2nd key elimination processing, the map selection key 25 or the name of a place selection key 26 which is applicable actuation key 10a is displayed on circumference display 4b of a display panel 4 at step S71. At step S72, it judges, respectively whether a map is displayed on central display 4a of a display panel 4, and whether at step S73, a name of a place list is under display. In map being under display, it eliminates the display of the map selection key 25 at step S74, and in name of a place being under list display, it eliminates the display of the name of a place selection key 26 at step S75.

[0057] Drawing 10 shows the flow chart of a map display process. By map display processing, it judges whether said key stroke is assignment of the area in a display at step S81. The case where, as for assignment of the area in a display, a subscriber does touch actuation of the predetermined location of the map displayed on central display 4a of a display panel 4 is said. namely, the map displayed on central display 4a of a display panel 4 -- length and width -- since the appointed field is set up by each being equally divided into ten, if a subscriber does touch actuation of either of the appointed field, assignment of the area in a display can be performed.

[0058] In this way, if assignment of the area in a display, i.e., a subscriber, judges that the predetermined location of central display 4a of a display panel 4 carried out direct touch actuation at step S81, the specified location core will be specified at step S82, and expansion processing will be carried out so that the appointed field may occupy a display panel at step S83. Here, if it judged whether expansion processing would have crossed the expansion limitation and has exceeded at step S84, amendment processing will be performed at step S85. Even if this amendment processing tends to perform expansion processing, when all the range of the appointed field cannot be displayed (for example, when 3/10 of lower part fields cannot be displayed), the map which moved only 3/10 up is displayed. And if amendment processing ends, an assignment map will be expressed to central display 4a of a display panel 4 as step S86.

[0059] On the other hand, if it is judged at said step S81 that there is no assignment of the area in a display, it will judge whether the arrow-head actuation key 30 is operated at step S87. If the arrow key 29 is operated, it will scroll only 9/10 in the direction of an arrow head at step S88, and the assignment map will be expressed as step S86. Namely, 1/10 [which is most separated from the operated arrow key 29] of the fields of a location are moved to the location nearest to an arrow key 29, and 9/10 of the fields of the opposite side are displayed on central display 4a of a display panel 4 in the arrow key 29 which has not appeared.

[0060] At said step S87, if there is no actuation of an arrow key 29, it will judge whether there was any expansion area assignment (actuation of the broader-based map actuation key 27 of drawing 18) at step S89. If there is expansion area assignment, after also displaying a surrounding map by displaying on a center section, reducing the map currently displayed on the current display panel 4 at step S90 to one half, and using as twice the map currently displayed on the current display panel 4, it shifts to step S86 and the assignment map is displayed.

[0061] If there is no assignment of an expansion area, since it will mean that there had been assignment (actuation of the short-range map selection key 28 of drawing 18) of a

contraction area at said step S89 on the other hand, after specifying a contraction area at step S91 and the central part was displayed on the whole screen at step S92, it shifts to step S86 and the assignment map is displayed.

[0062] In addition, although map display processing was made to perform amendment processing only by assignment of the area in said display, of course, it may be made to carry out by said arrow-head actuation and broader-based assignment.

[0063] Drawing 11 shows the flow chart of data display processing. After choosing a dispensing pharmacy list at step S102 since it means that the dispensing pharmacy list was chosen if a name of a place list is searched with step S103 and the name of a place list is not chosen if it judges whether the name of a place list was chosen at step S101 in data-display processing and the name of a place list is chosen, the dispensing pharmacy list which corresponds at step S103 searches, and the dispensing pharmacy name which memorized to storage 2 calls. And it judges whether a full list can be displayed on central display 4a of a display panel 4 at step S104, and if a display is possible, the registration list which corresponds at step S105 will be displayed. On the other hand, if a display is impossible, after displaying a menu manipulation [degree] key (not shown) as actuation key 10a at step S106, the registration list which assigned the applicable registration list to each screen at step S107, and was assigned to the initial screen at step S108 will be displayed. In this case, of course, the registration list displayed on central display 4a of a display panel 4 can be changed by operating a menu manipulation [degree] key sequentially and going.

[0064] (Service processing) Drawing 12 and drawing 13 show the flow chart of service processing. In service processing, it judges whether offer of the medicine indicated by the prescription 20 can be performed based on the inventory information on the drugs in a dispensing pharmacy at step S111. If medicinal offer cannot be performed, after performing a display of that a prescription cannot be written at step S112, an actuation annunciator is performed at step S113. That is, after indicating "it cannot write a prescription in the selected dispensing pharmacy since <> is out of stock" etc., it displays "please display, and it shifts and reoperate that selection key" etc. on central display 4a of a display panel 4. In this case, as actuation key 10a to display, there are the map selection key 25, a name of a place selection key 26, a front screen selection key (not shown), etc. At step S114, it judges whether actuation of the return actuation 25, i.e., a map selection key, and name of a place selection key 26 grade was carried out, and if this return actuation is performed, predetermined processing will be performed like the above. Moreover, if return actuation is not performed, it judges whether pre-menu manipulation, i.e., a front screen selection key etc., was operated at step S115. If pre-menu manipulation is made, after returning to a front screen at step S116, it shifts to R to which drawing 7 or drawing 16 corresponds. Moreover, it stands by until it has returned to step S114, it shifts and that actuation key 10a is operated, if pre-menu manipulation is not made.

[0065] On the other hand, when medicinal offer can be performed at said step S111, a service menu is expressed as step S117, and an actuation menu is expressed as step S118. A service menu means guidance of the selection menu about the dispensing pharmacy displayed on central display 4a of a display panel 4. An actuation menu is displayed on circumference display 4b as actuation key 10a of the means of transportation selection key 31, the catalog selection key 32, an object, and appearance of a store selection key 33

grade. In addition, the reservation cancellation key 35 for canceling the map print key 34 for printing out the map searched with said step S57 and reservation is also displayed in the case of the display of this actuation menu.

[0066] Then, the 3rd key elimination processing is performed at step S119. The processing which carries out sequential elimination of the display of a thing [finishing / actuation / among each actuation key 10a for the 3rd key elimination processing to acquire the information which can be offered about a dispensing pharmacy] is said.

[0067] Next, it judges whether there was any key input selection actuation (one of key strokes) at step S120. If there is no key selection actuation, it will stand by as it is, if there is key selection actuation, the dispensing pharmacy information which corresponds at step S121 will be displayed, and based on the existence of the input signal from an end key (not shown), it judges whether actuation was completed at step S122. If actuation is not completed, steps S119-S121 are repeated, and an operated key is eliminated and it goes by said step S119 each time. And when all actuation is completed, it shifts to step S123 shown in drawing 13 .

[0068] Patient medication record information based on a prescription 20 is retrieved at step S123. That is, the information which corresponds from storage 2 based on prescription information indicated by the prescription 20, such as a subscriber name and a drugs name, is called. It is based on the information called at step S123 in step S124. For example When two or more medicine is indicated and they are taken to coincidence, [whether the side effect by coupling inhibition happens, and] When other prescriptions 20 have already received [whether a side effect occurs by the patient, and] medicine, the result at the time of applying the medicine of a publication to a prescription 20 about whether said coupling inhibition occurs and subscribers among those medicine is analyzed, and it judges whether there is any problem in a formula.

[0069] When it is judged that there is no problem in a formula, it shifts to step S132. On the other hand, when it is judged that a problem is in a formula at said step S124, it judges whether the communication link to a medical practitioner is performed in order to express problem generating to a display panel 4 as step S125 and to make it choose to any it shall communicate between a medical practitioner or a pharmacist at step S126. Here, a display of a medical practitioner or a pharmacist is made by actuation key 10a of a display panel 4. When communicating to a medical practitioner, the medical practitioner in charge gets a telephone call at step S127, and when communicating to a pharmacist, the pharmacist who chose at step S128 gets a telephone call.

[0070] The medical practitioner or pharmacist who was able to telephone judges, respectively whether a previous prescription is effective in whether there were any input formula data from the outside (step S129) (step S130). And there are input formula data from the outside, and when it is judged that a previous prescription is not effective, after performing recurrence line processing of a prescription (step S131), in corresponding to neither, it shifts to step S132 as it is.

[0071] At step S132, the dispensing pharmacy information chosen among the map to the dispensing pharmacy chosen from the hospital which is a its present location, and the service menu displayed at said step S117 is collectively printed out by said step S57. And after displaying the last notes -- whether there is any failure of a prescription 20 to take in central display 4a of a display panel 4 -- at step S133, the display process which was being performed till then at step S134 is ended, and completion formula data are

memorized at step S135. This completion formula data is stored and is used in the case of next prescription reception.

[0072] Drawing 14 shows the flow chart of the 3rd key elimination processing. After displaying actuation key 10a which corresponds to the information which can be offered about a dispensing pharmacy at step S141 in the 3rd key elimination processing, Concretely at steps S142-S145, respectively [whether the key stroke of an object and an appearance of a store ended, and] It judges, respectively whether the key stroke of means of transportation guidance ended, whether the key stroke of a catalog ended, and whether actuation of a map print key ended, and if it is actuation ending, the display of applicable actuation key 10a will be eliminated at steps S146-S149, respectively.

[0073] (Communications processing) Drawing 15 shows the flow chart of communications processing. Communications processing means the processing transmitted to the dispensing pharmacy which chose prescription information.

[0074] In communications processing, prescription information read by said reception processing at step S151 is read. Next, the dispensing pharmacy information about the dispensing pharmacy memorized by said dispensing pharmacy selection processing at step S152 is read, and a desired dispensing pharmacy is accessed through the telephone line at step S153.

[0075] In step S154, it judges whether the telephone line was connected, and if connected, prescription information will be transmitted at step S155. And after standing by until a communication link is completed by judging whether the communication link was completed at step S156, it judges whether there are any are recording data at step S157. If there are are recording data, said actuation will be repeated, and each processing will be ended if there are no are recording data. At this time, what is necessary is just made to display communication link termination etc. on central display 4a of a display panel 4.

[0076] Moreover, when it is judged that the telephone line is not connected at said step S154, it judges whether it is during the conversation at step S158, if it is during the conversation, it will shift to step S161, and if it is not during the conversation, it will judge whether there are any abnormalities in the telephone line at step S159. If abnormal, it will make it transmit as information not to be connectable with a dial office etc. at step S160, and if normal, it will shift to step S161.

[0077] At step S161, it judges whether the call was performed 10 times, if carried out, it will shift to said step S160, and if a call is less than 10 times, retransmission-of-message data will be memorized at step S162, it will return to step S151, and said processing will be repeated.

[0078] As mentioned above, although the case where the map selection key 25 was chosen was explained, when the name of a place selection key 26 is operated, according to the flow chart of drawing 16 , chemist's shop selection name of a place processing is performed as follows.

[0079] (Dispensing pharmacy selection processing - name of a place processing) In chemist's shop selection name of a place processing, according to the flow chart of drawing 11 , data display processing is performed like the above at step S171, and a name of a place list or a dispensing pharmacy list is displayed on central display 4a of a display panel 4. And according to the flow chart of drawing 9 , the 2nd key elimination processing is performed like the above at step S172. Here, since it is [chemist's shop

selection name of a place] under processing, only the map selection key 25 is displayed on circumference display 4b of a display panel 4, and the name of a place selection key 26 is eliminated. Then, it judges whether map display actuation was performed at step S173. If there is map display actuation, i.e., actuation of the map selection key 25, chemist's shop selection map processing shown in the flow chart of drawing 7 will be performed. Moreover, if there is no map display actuation, it will shift to step S174.

[0080] At step S174, if a chemist's shop list key (not shown) judges whether actuation was carried out and is not chosen, as it is, it shifts to step S176, and if chosen, after performing data display processing at step S175, it shifts to step S176. Data display processing displays an applicable registration list on central display 4a of a display panel 4 according to the flow chart of drawing 11 like the case of said map selection. In this case, the registration lists displayed are an area name, the name of a place, and a dispensing pharmacy name, and a screen changes from an area name to the name of a place and a dispensing pharmacy name from the name of a place by being pressed with a direct finger one by one.

[0081] At step S176, it judges whether the dispensing pharmacy was chosen. If the dispensing pharmacy is chosen, it shifts to step S184, and if not chosen, it will shift to step S178 as that as which the area name of a place key was chosen at step S177.

[0082] At steps S178-S183, the same processing as said steps S171-S176 is performed. However, since the area name is already chosen at said step S171, the registration list displayed at step S178 turns into a name of a place list. Moreover, at step S183, it stands by until a dispensing pharmacy is chosen.

[0083] In this way, it judges whether when the dispensing pharmacy was chosen, there was any actuation of the map display key 25 at step S184, and if there is actuation of the map display key 25, the map around a dispensing pharmacy chosen as central display 4a of a display panel 4 at steps S185 and S186 will be displayed. Thereby, reconfirmation of being the chemist's shop which self chose, the check of the root to a chemist's shop of a subscriber, etc. are attained.

[0084] In not wishing after performing print information processing at step S189, in judging whether a map print is published at step S188 and wishing to publish if it stands by on the other hand until selection of a dispensing pharmacy will be completed at step S187, if there is no actuation of the map display key 25, and selection of a dispensing pharmacy is completed, it performs said service processing and communications processing as it is. Service processing and communications processing are as having already explained.

[0085]

[Effect of the Invention] Since the information indicated by the prescription can be transmitted to the dispensing pharmacy which the subscriber chose beforehand according to this invention so that clearly from the above explanation, the reception of drugs does not take time amount.

[0086] In invention equipped with the display means, since a subscriber can recognize dispensing pharmacy information by vision, he can choose a dispensing pharmacy easily.

[0087] A dispensing pharmacy can be chosen looking at the map displayed on the display means by invention which was made to give expansion and contraction or a migration indication of the map, and it is possible to select simply the dispensing pharmacy which a subscriber tends to use.

[0088] At invention which enabled it to display the dispensing pharmacy name in the map displayed on the display means, a subscriber can choose, after checking a dispensing pharmacy name, and he does not have worries about an operation mistake.

[0089] In invention which enabled it to display the name of a place selection information hierarchized for the display means, a near dispensing pharmacy can be easily chosen from a house by, for example, inputting a predetermined area name with a subscriber's address.

[0090] In invention which enabled it to display the dispensing pharmacy information chosen as the display means, the information on requests, such as the access approach to a dispensing pharmacy and a regular holiday day, can be acquired.

[0091] It is possible to choose a dispensing pharmacy quickly based on the telephone number of a dispensing pharmacy, the address, etc. in invention which chose the dispensing pharmacy based on chemist's shop specific information.

[Translation done.]